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OCT 11 1974

ANALYSIS OF CONTRACTS AWARDED
CALENDAR YEAR 1968

PREPARED BY THE
MONTANA STATE HIGHWAY COMMISSION
PLANNING SURVEY SECTION
IN COOPERATION WITH THE
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS

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CONTRACT ANALYSES
Calendar Year 1968

FOREWARD

The attached tabulations have been prepared from the Detailed Estimate and Contract Award sheet for all contracts awarded during the calendar year 1968. Due to the variety of contracts awarded, the miles involved and total costs, it appeared necessary to provide more stratification than we have in the past.

A brief explanation of each of the following tables is provided to help in the interpretation of the figures and to lessen the possibility of erroneous conclusions.

Table 1 - Summary of New and Reconstructed Roadway Only, by County and Financial District.

This table is intended to inform the user of how many actual miles of roadway were let to contract and the costs involved. It includes all items pertinent to the same section of roadway except structures.

Table 1A - Summary of Total Amounts Awarded by County and Financial District.

This table is a total of all miles and costs involved regardless of the type of project. Besides roadway costs, it includes signing, lighting, fencing and bridge projects.

Table 2 - Summary of Roadway Mileage Awarded by Systems.

The table involves the same type of construction as Table 1. Table 2, however, provides a cost per mile figure for the different systems and also provides a simple analysis of benefits by inclusion of the "cost per annual vehicle mile."

Table 3-3a-3c - Summary of Type of Construction.

A separate table has been prepared for each Federal Aid System with all projects including Signing and Fencing classified into 10 different categories. The purpose of this table is to give a general indication of what type of construction is responsible for the major share of monies spent. For example, note the bulk of Interstate monies is spent for New Construction,whereas, the greater share for Primary and Secondary is spent for Reconstruction.

Table 4-4a-4c - Summary by Surface Type by Systems

These tables indicate the average cost per mile of various items included in a completed roadway by type of surfacing. Caution should be exercised in using the average cost per mile data due to the small sample involved for some cost items.

Table 5 - Summary of Roadway Mileage Awarded by Number of Traffic Lanes.

This table deals with the same miles and costs involved in Tables 1 and 2.

Table 6-6a-6c-6d - Summary of Structures by Type

These tables summarize the number of structures let by type and also provide a cost per square foot, by type of structure.

Table 7-7a-7c - Summary of Roadway Mileage Awarded by ADT.

The table involves only actual roadway constructed, as Tables 1, 2 and 5 and provides a relationship between the volumes of traffic, miles constructed and costs. It is possible to further develop this table to obtain a road user benefit on a vehicle mile basis.

Table 8 - Summary of Contracted and Non-contracted Costs by System.

Some items, such as railroad flagging, roadway materials, detours and traffic control devices are considered non-contract items in certain instances. The costs of such items are included in the Detailed Estimate, but not in the Contract Award Amount. This table tabulates the two costs for the users information.

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED
BY COUNTY AND FINANCIAL DISTRICT
DURING CALENDAR YEAR 1968

THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAY. REFER TO TABLE 1A FOR THE TOTAL AMOUNTS OF CONTRACTS AWARDED

AUGUST 04, 1969

TABLE 1

COUNTY AND	INTERSTATE SYSTEM		PRIMARY SYSTEM		SECONDARY SYSTEM		OTHER SYSTEMS		ALL SYSTEMS	
FINANCIAL DISTRICT	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST
LAKE			.306	47,810					.306	47,810
FD #01			.306	47,810					.306	47,810
BLAINE					11.893	373,995			11.893	373,995
FD #02					11.893	373,995			11.893	373,995
DANIELS			9.957	241,882	14.182	42,074			24.139	283,956
PHILLIPS					9.138	28,521			9.138	28,521
ROOSEVELT			14.506	1,267,335					14.506	1,267,335
FD #03			24.463	1,509,217	23.320	70,595			47.783	1,579,812
DAWSON			5.544	808,023					5.544	808,023
MC CONE			4.976	662,991					4.976	662,991
PRAIRIE	6.399	1,006,606			9.214	26,706			15.613	1,033,312
RICHLAND			3.328	441,464					3.328	441,464
WIBAUX					3.860	15,700			3.860	15,700
FD #04	6.399	1,006,606	13.848	1,912,478	13.074	42,406			33.321	2,961,490
FERGUS					.220	73,458			.220	73,458
FD #05					.220	73,458			.220	73,458
CASCADE	7.002	592,483							7.002	592,483
CHOUTEAU					12.900	727,440			12.900	727,440
FD #06	7.002	592,483			12.900	727,440			19.902	1,319,923
BROADWATER			1.984	314,240	4.754	13,802			6.738	328,042
JEFFERSON	10.386	2,485,316	1.665	219,740					12.051	2,705,056
LEWIS & CLARK			1.670	164,841					1.670	164,841
FD #07	10.386	2,485,316	5.319	698,821	4.754	13,802			20.459	3,197,939
GRANITE	15.027	8,436,204							15.027	8,436,204
FD #08	15.027	8,436,204							15.027	8,436,204
BEAVERHEAD					4.877	545,951			4.877	545,951
DEER LODGE					2.934	377,373			2.934	377,373
SILVER BOW	.814	451,802							.814	451,802

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED
BY COUNTY AND FINANCIAL DISTRICT
DURING CALENDAR YEAR 1968

THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAY. REFER TO TABLE 1A FOR THE TOTAL AMOUNTS OF CONTRACTS AWARDED

AUGUST 04, 1969

TABLE 1

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM		PRIMARY SYSTEM		SECONDARY SYSTEM		OTHER SYSTEMS		ALL SYSTEMS	
	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST
FD #09	.814	451,802			7.811	923,324			8.625	1,375,126
MEAGHER					8.165	476,419			8.165	476,419
SWEET GRASS			1.724	267,277					1.724	267,277
WHEATLAND					7.193	209,504			7.193	209,504
FD #10			1.724	267,277	15.358	685,923			17.082	953,200
BIG HORN	16.458	3,029,549							16.458	3,029,549
CARBON			9.637	1,115,552	7.464	22,141			17.101	1,137,693
GOLDEN VALLEY					4.711	12,566			4.711	12,566
STILLWATER	9.061	3,181,503							9.061	3,181,503
YELLOWSTONE	5.935	2,227,688							5.935	2,227,688
FD #11	31.454	8,438,740	9.637	1,115,552	12.175	34,707			53.266	9,588,999
POWDER RIVER			20.609	884,202					20.609	884,202
ROSEBUD					8.686	168,452			8.686	168,452
FD #12			20.609	884,202	8.686	168,452			29.295	1,052,654
TOTAL	71.082	21,411,151	75.906	6,435,357	110.191	3,114,102			257.179	30,960,610

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF TOTAL AMOUNTS AWARDED BY COUNTY AND FINANCIAL DISTRICT DURING CALENDAR YEAR 1968
TABLE 1A

AUGUST 04, 1969

COUNTY AND	INTERSTATE SYSTEM		PRIMARY SYSTEM		SECONDARY SYSTEM		OTHER SYSTEMS		ALL SYSTEMS	
FINANCIAL DISTRICT	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST
FLATHEAD				9,344						9,344
LAKE			.306	52,591					.306	52,591
FD #01			.306	61,935					.306	61,935
BLAINE					11.893	411,394			11.893	411,394
GLACIER				18,864						18,864
FD #02				18,864	11.893	411,394			11.893	430,258
DANIELS			19.968	270,056	14.182	46,231			34.150	316,287
PHILLIPS			7.177	15,298	45.638	45,744			52.815	61,042
ROOSEVELT			14.506	1,394,055					14.506	1,394,055
VALLEY						230,907				230,907
FD #03			41.651	1,679,409	59.820	322,882			101.471	2,002,291
DAWSON			5.544	1,028,542					5.544	1,028,542
MC CONE			9.952	741,490					9.952	741,490
PRAIRIE	18.911	2,143,176			9.214	29,316			28.125	2,172,492
RICHLAND			3.328	485,610					3.328	485,610
WIBAUX					3.860	17,220			3.860	17,220
FD #04	18.911	2,143,176	18.824	2,255,642	13.074	46,536			50.809	4,445,354
FERGUS					.220	189,628			.220	189,628
FD #05					.220	189,628			.220	189,628
CASCADE	25.896	1,192,776	.192	22,753					26.088	1,215,529
CHOUTEAU					12.900	800,184			12.900	800,184
JUDITH BASIN					28.000	13,855			28.000	13,855
FD #06	25.896	1,192,776	.192	22,753	40.900	814,039			66.988	2,029,568
BROADWATER	5.703	21,589	2.753	398,595	4.754	15,132			13.210	435,316
JEFFERSON	41.194	3,012,437	1.911	242,886					43.105	3,255,323
LEWIS & CLARK		64,591	1.670	181,325					1.670	245,916
FD #07	46.897	3,098,617	6.334	822,806	4.754	15,132			57.985	3,936,555
GRANITE	53.002	10,810,818							53.002	10,810,818
MINERAL	13.824	71,179							13.824	71,179
MISSOULA	19.516	139,942							19.516	139,942
FD #08	86.342	11,021,939							86.342	11,021,939

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF TOTAL AMOUNTS AWARDED BY COUNTY AND FINANCIAL DISTRICT DURING CALENDAR YEAR 1968

TABLE 1A

AUGUST 04, 1969

COUNTY AND	INTERSTATE SYSTEM		PRIMARY SYSTEM		SECONDARY SYSTEM		OTHER SYSTEMS		ALL SYSTEMS	
FINANCIAL DISTRICT	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST
BEAVERHEAD					4.877	600,546			4.877	600,546
DEER LODGE					5.216	452,839			5.216	452,839
SILVER BOW	17.262	873,960	.325	2,103					17.587	876,063
FD #09	17.262	873,960	.325	2,103	10.093	1,053,385			27.680	1,929,448
GALLATIN	19.053	77,850							19.053	77,850
MEAGHER					8.165	564,761			8.165	564,761
SWEET GRASS			27.624	312,258					27.624	312,258
WHEATLAND			11.500	3,216	7.193	230,454			18.693	233,670
FD #10	19.053	77,850	39.124	315,474	15.358	795,215			73.535	1,188,539
BIG HORN	41.054	4,384,240							41.054	4,384,240
CARBON			9.637	1,280,872	7.464	24,305			17.101	1,305,177
GOLDEN VALLEY					4.711	13,772			4.711	13,772
STILLWATER	21.397	4,518,239							21.397	4,518,239
YELLOWSTONE	39.637	3,155,306		59,453					39.637	3,214,759
FD #11	102.088	12,057,785	9.637	1,340,325	12.175	38,077			123.900	13,436,187
POWDER RIVER			41.218	979,933					41.218	979,933
ROSEBUD					61.286	285,519			61.286	285,519
FD #12			41.218	979,933	61.286	285,519			102.504	1,265,452
TOTAL	316.449	30,466,103	157.611	7,499,244	229.573	3,971,807			703.633	41,937,154

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED BY SYSTEMS DURING CALENDAR YEAR 1968

THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAYS

TABLE 2

AUGUST 04, 1969

SYSTEM	MILEAGE	TOTAL COST	COST PER MILE	ANNUAL VEHICLE MILES	COST PER ANNUAL VEHICLE MILE
RURAL					
INTERSTATE RURAL	71.082	21,411,151	301,217	56,450,170	00.379
PRIMARY RURAL	74.264	6,269,304	84,419	31,497,675	00.199
SECONDARY RURAL	109.511	3,104,547	28,349	8,539,175	00.363
OTHER					00.000
SUBTOTAL RURAL	254.857	30,785,002	120,793	96,487,020	00.319
MUNICIPAL					
INTERSTATE MUNICIPAL					00.000
PRIMARY MUNICIPAL	1.642	166,053	101,128	574,875	00.288
SECONDARY MUNICIPAL	.680	9,555	14,051	17,155	00.556
OTHER					00.000
SUBTOTAL MUNICIPAL	2.322	175,608	75,627	592,030	00.296
TOTAL BY SYSTEM					
INTERSTATE	71.082	21,411,151	301,217	56,450,170	00.379
PRIMARY	75.906	6,435,357	84,780	32,072,550	00.200
SECONDARY	110.191	3,114,102	28,260	8,556,330	00.363
OTHER					00.000
GRAND TOTAL	257.179	30,960,610	120,385	97,079,050	00.318

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF TYPE OF CONSTRUCTION DURING CALENDAR YEAR 1968 BY SYSTEM
TABLE 3

AUGUST 18, 1969

	INTERSTATE	
TYPE OF CONSTRUCTION	MILES	COST
RURAL		
NEW CONSTRUCTION	206.756	28,929,406
RECONSTRUCTION		
NEW CONSTRUCTION & RECONSTRUCTION	3.444	50,969
RESURFACING		
WIDENING ROADWAY		
WIDENING BRIDGE		
CLEANING & PAINTING		
EMERGENCY FLOOD		
NEW CONST. CONVERTING FROM 2 TO 4 LANES	4.836	110,240
OTHER	78.092	1,092,269
TOTAL		30,182,884
MUNICIPAL		
NEW CONSTRUCTION	22.746	280,439
RECONSTRUCTION		
NEW CONSTRUCTION & RECONSTRUCTION		
RESURFACING		
WIDENING ROADWAY		
WIDENING BRIDGE		
CLEANING & PAINTING		
EMERGENCY FLOOD		
NEW CONST. CONVERTING FROM 2 TO 4 LANES		
OTHER	.575	2,780
TOTAL		283,219
ALL CONSTRUCTION		
NEW CONSTRUCTION	229.502	29,209,845
RECONSTRUCTION		
NEW CONSTRUCTION & RECONSTRUCTION	3.444	50,969
RESURFACING		
WIDENING ROADWAY		
WIDENING BRIDGE		
CLEANING & PAINTING		
EMERGENCY FLOOD		
NEW CONST. CONVERTING FROM 2 TO 4 LANES	4.836	110,240
OTHER	78.667	1,095,049
TOTAL		30,466,103

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF TYPE OF CONSTRUCTION DURING CALENDAR YEAR 1968 BY SYSTEM

TABLE 3A

AUGUST 18, 1969

TYPE OF CONSTRUCTION	PRIMARY I	
	MILES	COST
RURAL		
NEW CONSTRUCTION	43.963	370,986
RECONSTRUCTION	80.423	5,583,352
NEW CONSTRUCTION & RECONSTRUCTION		
RESURFACING	29.745	1,211,991
WIDENING ROADWAY		
WIDENING BRIDGE		53,898
CLEANING & PAINTING		
EMERGENCY FLOOD		
NEW CONST. CONVERTING FROM 2 TO 4 LANES		
OTHER		
TOTAL		7,220,227
MUNICIPAL		
NEW CONSTRUCTION	1.338	12,352
RECONSTRUCTION	1.321	180,512
NEW CONSTRUCTION & RECONSTRUCTION		
RESURFACING	.821	26,700
WIDENING ROADWAY		
WIDENING BRIDGE		
CLEANING & PAINTING		
EMERGENCY FLOOD		
NEW CONST. CONVERTING FROM 2 TO 4 LANES		
OTHER		59,453
TOTAL		279,017
ALL CONSTRUCTION		
NEW CONSTRUCTION	45.301	383,338
RECONSTRUCTION	81.744	5,763,864
NEW CONSTRUCTION & RECONSTRUCTION		
RESURFACING	30.566	1,238,691
WIDENING ROADWAY		
WIDENING BRIDGE		53,898
CLEANING & PAINTING		
EMERGENCY FLOOD		
NEW CONST. CONVERTING FROM 2 TO 4 LANES		
OTHER		59,453
TOTAL		7,499,244

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF TYPE OF CONSTRUCTION DURING CALENDAR YEAR 1968 BY SYSTEM

TABLE 3C

AUGUST 18, 1969

TYPE OF CONSTRUCTION	SECONDARY	
	MILES	COST
RURAL		
NEW CONSTRUCTION	15.737	1,285,981
RECONSTRUCTION	35.068	2,369,451
NEW CONSTRUCTION & RECONSTRUCTION	114.667	31,951
RESURFACING	60.988	196,634
WIDENING ROADWAY		
WIDENING BRIDGE		68,354
CLEANING & PAINTING		
EMERGENCY FLOOD		
NEW CONST. CONVERTING FROM 2 TO 4 LANES		
OTHER		
TOTAL		3,952,371
MUNICIPAL		
NEW CONSTRUCTION		
RECONSTRUCTION	.214	8,508
NEW CONSTRUCTION & RECONSTRUCTION	2.433	8,976
RESURFACING	.466	1,952
WIDENING ROADWAY		
WIDENING BRIDGE		
CLEANING & PAINTING		
EMERGENCY FLOOD		
NEW CONST. CONVERTING FROM 2 TO 4 LANES		
OTHER		
TOTAL		19,436
ALL CONSTRUCTION		
NEW CONSTRUCTION	15.737	1,285,981
RECONSTRUCTION	35.282	2,377,959
NEW CONSTRUCTION & RECONSTRUCTION	117.100	40,927
RESURFACING	61.454	198,586
WIDENING ROADWAY		
WIDENING BRIDGE		68,354
CLEANING & PAINTING		
EMERGENCY FLOOD		
NEW CONST. CONVERTING FROM 2 TO 4 LANES		
OTHER		
TOTAL		3,971,807

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1968
TABLE 4 INTERSTATE SYSTEM AUGUST 4, 1969

COST ITEM		SURFACE TYPE			OTHER	ALL
		GRAVEL	BITUM. MIX	CONCRETE	CONST.	CONST.
GRADING	MILES	5.935	21.426	.814	68.550	96.725
	COST	1,645,549	5,262,106	217,429	7,087,711	14,212,795
	COST/MILE	277,261	245,594	267,111	103,394	146,940
DRAINAGE	MILES	5.935	21.426	.814	48.122	76.297
	COST	358,334	572,866	26,571	1,853,196	2,810,967
	COST/MILE	60,376	26,736	32,642	38,510	36,842
FOUNDATION	MILES	5.935	21.426	.814	42.939	71.114
	COST	100,400	1,394,282	74,632	138,122	1,707,436
	COST/MILE	16,916	65,074	91,685	3,216	24,009
SURFACING	MILES	5.935	20.947	.814	44.141	71.837
	COST	18,025	1,149,123	54,083	155,597	1,376,828
	COST/MILE	3,037	54,858	66,441	3,524	19,166
RDSIDE DEVEL.	MILES			.814	30.738	31.552
	COST			11,546	201,839	213,385
	COST/MILE			14,184	6,566	6,762
EROSION CTL.	MILES	5.935	21.426	.814	160.273	188.448
	COST	91,030	491,165	8,649	1,081,033	1,671,877
	COST/MILE	15,337	22,923	10,625	6,744	8,871
TRAFFIC CTL.	MILES	5.935	20.947	.814	175.903	203.599
	COST	4,000	560,218	48,029	277,691	889,938
	COST/MILE	673	26,744	59,003	1,578	4,371
FENCING	MILES	5.935	21.426	.814	127.845	156.020
	COST	10,350	13,050	10,863	503,396	537,659
	COST/MILE	1,743	609	13,345	3,937	3,446
MISC.	MILES				6.142	6.142
	COST				56,800	56,800
	COST/MILE				9,247	9,247
BRIDGES	SQ. FEET				321,114	321,114
	COST				4,219,407	4,219,407
	COST/SQ. FOOT				13.139	13.139
ALL ITEMS	MILES	5.935	21.426	.814	288.274	316.449
	COST	2,227,688	9,442,810	451,802	15,574,792	27,697,092
	COST/MILE	375,347	440,717	555,039	54,027	87,524

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1968
PRIMARY SYSTEM

TABLE 4A

AUGUST 4, 1969

COST ITEM		SURFACE TYPE			OTHER CONST.	ALL CONST.
		GRAVEL	BITUM. MIX	CONCRETE		
GRADING	MILES		75.906			75.906
	COST		1,456,638			1,456,638
	COST/MILE		19,190			19,190
DRAINAGE	MILES		45.340			45.340
	COST		843,556		47,509	891,065
	COST/MILE		18,605			19,652
FOUNDATION	MILES		75.906			75.906
	COST		1,854,574		2,920	1,857,494
	COST/MILE		24,432			24,470
SURFACING	MILES		75.906			75.906
	COST		1,898,152		2,574	1,900,726
	COST/MILE		25,006			25,040
RDSIDE DEVEL.	MILES		.821			.821
	COST		1,500			1,500
	COST/MILE		1,827			1,827
EROSION CTL.	MILES		45.340		.192	45.532
	COST		108,477		237	108,714
	COST/MILE		2,392		1,234	2,387
TRAFFIC CTL.	MILES		75.906		68.537	144.443
	COST		267,875		80,320	348,195
	COST/MILE		3,529		1,171	2,410
FENCING	MILES		3.115		13.168	16.283
	COST		2,460		28,724	31,184
	COST/MILE		789		2,181	1,915
MISC.	MILES		.821			.821
	COST		2,125			2,125
	COST/MILE		2,588			2,588
BRIDGES	SQ. FEET				22,630	22,630
	COST				221,605	221,605
	COST/SQ. FOOT				9.792	9.792
ALL ITEMS	MILES		75.906		81.705	157.611
	COST		6,435,357		383,889	6,819,246
	COST/MILE		84,780		4,698	43,266

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1968
TABLE 4C SECONDARY SYSTEM AUGUST 4, 1969

COST ITEM		SURFACE TYPE GRAVEL	BITUM. MIX	CONCRETE	OTHER CONST.	ALL CONST.
GRADING	MILES		48.737			48.737
	COST		834,843			834,843
	COST/MILE		17,129			17,129
DRAINAGE	MILES		48.523			48.523
	COST		281,679		6,817	288,496
	COST/MILE		5,805			5,945
FOUNDATION	MILES		48.737			48.737
	COST		816,109			816,109
	COST/MILE		16,745			16,745
SURFACING	MILES		105.314			105.314
	COST		956,266			956,266
	COST/MILE		9,080			9,080
RDSIDE DEVEL.	MILES		21.065			21.065
	COST		21,455			21,455
	COST/MILE		1,018			1,018
EROSION CTL.	MILES		34.957			34.957
	COST		59,897			59,897
	COST/MILE		1,713			1,713
TRAFFIC CTL.	MILES		110.191		117.100	227.291
	COST		143,701		37,562	181,263
	COST/MILE		1,304		320	797
FENCING	MILES				2.282	2.282
	COST				3,009	3,009
	COST/MILE				1,318	1,318
MISC.	MILES		4.877			4.877
	COST		152			152
	COST/MILE		31			31
BRIDGES	SQ. FEET				26,952	26,952
	COST				450,018	450,018
	COST/SQ. FOOT				16.697	16.697
ALL ITEMS	MILES		110.191		119.382	229.573
	COST		3,114,102		497,406	3,611,508
	COST/MILE		28,260		4,166	15,731

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED BY NUMBER OF TRAFFIC LANES DURING CALENDAR YEAR 1968

TABLE 5 AUGUST 04, 1969

NO. LANES	MILES	COST	COST/MILE
INTERSTATE SYSTEM			
2	2.418	98,172	40,600
4	68.664	21,312,979	310,395
TOTAL	71.082	21,411,151	301,217
PRIMARY SYSTEM			
2	75.906	6,435,357	84,780
4			
TOTAL	75.906	6,435,357	84,780
SECONDARY SYSTEM			
2	110.191	3,114,102	28,260
4			
TOTAL	110.191	3,114,102	28,260
ALL SYSTEMS			
2	188.515	9,647,631	51,176
4	68.664	21,312,979	310,395
TOTAL	257.179	30,960,610	120,385

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION
SUMMARY OF STRUCTURES BY TYPE
DURING CALENDAR YEAR 1968

TABLE 6 INTERSTATE SYSTEM AUGUST 04, 1969

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
TIMB. GIRD.	X001	1	280	4,704	16.800
CONC. SLAB	X220	3	27,066	372,004	13.744
CONC. BOX CULV.	X028	1	3,260	37,488	11.499
STEEL GIRD.	X131	1	39,480	480,052	12.159
	X731	3	31,156	427,335	13.715
CONC. PRESTR. GIRD.	X081	7	108,618	1,629,023	14.997
	X181	1	13,692	168,846	12.331
	X281	5	61,102	681,852	11.159
	X781	3	36,460	409,850	11.241
		25	321,114	4,211,154	13.114

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION
SUMMARY OF STRUCTURES BY TYPE
DURING CALENDAR YEAR 1968

TABLE 6A

PRIMARY I SYSTEM

AUGUST 04, 1969

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. GIRD	X021	1	2,192	48,999	22.353
STEEL GIRD.	X031	1	16,600	127,085	7.655
CONC. PRESTR. GIRD.	X081	1	3,838	45,521	11.860
		3	22,630	221,605	9.792

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION
SUMMARY OF STRUCTURES BY TYPE
DURING CALENDAR YEAR 1968

TABLE 6C SECONDARY SYSTEM AUGUST 04, 1969

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
TIMB. GIRD.	X001	1	3,192	55,323	17.331
STEEL GIRD.	X031	2	3,950	73,793	18.681
CONC. PRESTR. GIRD.	X081	2	12,096	241,245	19.944
	X181	1	7,714	79,657	10.326
		6	26,952	450,018	16.697

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION
SUMMARY OF STRUCTURES BY TYPE
DURING CALENDAR YEAR 1968

TABLE 6D ALL SYSTEMS AUGUST 04, 1969

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
TIMB. GIRD.	X001	2	3,472	60,027	17.288
CONC. SLAB	X220	3	27,066	372,004	13.744
CONC. GIRD	X021	1	2,192	48,999	22.353
CONC. BOX CULV.	X028	1	3,260	37,488	11.499
STEEL GIRD.	X031	3	20,550	200,878	9.775
	X131	1	39,480	480,052	12.159
	X731	3	31,156	427,335	13.715
CONC. PRESTR. GIRD.	X081	10	124,552	1,915,789	15.381
	X181	2	21,406	248,503	11.609
	X281	5	61,102	681,852	11.159
	X781	3	36,460	409,850	11.241
		34	370,696	4,882,777	13.171

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED BY AVERAGE DAILY TRAFFIC (NEW OR RECONSTRUCTED ROADWAY ONLY) DURING CALENDAR YEAR 1968

TABLE 7

AUGUST 04, 1969

SYSTEM - INTERSTATE

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001-0049	.000		
0050-0099	.000		
0100-0199	.000		
0200-0299	.000		
0300-0399	.000		
0400-0499	.000		
0500-0999	.000		
1000-1499	.000		
1500-1999	32.080	$ 7,410,375	$ 230,996
2000-2999	30.382	$ 11,354,547	$ 373,726
3000-4999	8.620	$ 2,646,229	$ 306,987
5000-OVER	.000		
TOTAL	71.082	$ 21,411,151	$ 301,217

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED
BY AVERAGE DAILY TRAFFIC
(NEW OR RECONSTRUCTED ROADWAY ONLY)
DURING CALENDAR YEAR 1968

TABLE 7A

AUGUST 04, 1969

SYSTEM - PRIMARY I

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001-0049	.000		
0050-0099	.000		
0100-0199	.000		
0200-0299	1.029	$ 116,442	$ 113,160
0300-0399	9.957	$ 241,882	$ 24,292
0400-0499	4.976	$ 662,991	$ 133,237
0500-0999	25.250	$ 1,647,857	$ 65,261
1000-1499	14.338	$ 1,643,017	$ 114,591
1500-1999	14.506	$ 1,267,335	$ 87,366
2000-2999	.306	$ 47,810	$ 156,241
3000-4999	5.544	$ 808,023	$ 145,747
5000-OVER	.000		
TOTAL	75.906	$ 6,435,357	$ 84,780

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED BY AVERAGE DAILY TRAFFIC (NEW OR RECONSTRUCTED ROADWAY ONLY) DURING CALENDAR YEAR 1968

TABLE 7 C

AUGUST 04, 1969

SYSTEM - SECONDARY

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001-0049	.000		
0050-0099	11.904	$ 222,070	$ 18,655
0100-0199	38.239	$ 1,339,753	$ 35,036
0200-0299	28.744	$ 1,018,866	$ 35,446
0300-0399	29.036	$ 239,347	$ 8,243
0400-0499	2.268	$ 294,066	$ 129,658
0500-0999	.000		
1000-1499	.000		
1500-1999	.000		
2000-2999	.000		
3000-4999	.000		
5000-OVER	.000		
TOTAL	110.191	$ 3,114,102	$ 28,260

STATE HIGHWAY COMMISSION OF MONTANA
PLANNING SURVEY SECTION

SUMMARY OF CONTRACTED AND NON-CONTRACTED COSTS BY SYSTEM DURING CALENDAR YEAR 1968

TABLE 8

AUGUST 04, 1969

SYSTEM	CONTRACTED COST	NON CONTRACTED COST	TOTAL
INTERSTATE	$ 27,590,937	$ 2,875,166	$ 30,466,103
PRIMARY I	$ 6,746,034	$ 753,210	$ 7,499,244
SECONDARY	$ 3,528,683	$ 443,124	$ 3,971,807
TOTAL	$ 37,865,654	$ 4,071,500	$ 41,937,154